



-1-

SEQUENCE LISTING

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Celis, Esteban  
Keogh, Elissa

<120> Inducing Cellular Immune Responses to  
Mage2/3 Using Peptide and Nucleic Acid Compositions

<130> 2060.0130000

<140> US 09/458,298

<141> 1999-12-10

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<160> 2438

<170> PatentIn version 3.1

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<400> 1914

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gly | Leu | Ser | Tyr | Asp | Gly | Leu | Leu | Gly | Asp | Asn | Gln | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1915

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1915

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gly | Leu | Leu | Gly | Asp | Asn | Gln | Val | Met | Pro | Lys | Thr | Gly | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1916

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1916

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Lys | Ile | Trp | Glu | Glu | Leu | Ser | Met | Leu | Glu | Val | Phe | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1917

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1917

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Leu | Trp | Gly | Pro | Arg | Ala | Leu | Ile | Glu | Thr | Ser | Tyr | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1918

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1918

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Lys | Ile | Trp | Glu | Glu | Leu | Ser | Met | Leu | Glu | Val | Phe | Glu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1919

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1919

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Asn | Tyr | Leu | Glu | Tyr | Arg | Gln | Val | Pro | Gly | Ser | Asp | Pro | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1920

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1920

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | His | Ile | Ser | Tyr | Pro | Pro | Leu | His | Glu | Arg | Ala | Leu | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1921

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1921

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Glu | Phe | Gln | Ala | Ala | Ile | Ser | Arg | Lys | Met | Val | Glu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1922

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1922

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Thr | Leu | Gly | Glu | Val | Pro | Ala | Ala | Asp | Ser | Pro | Ser | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1923

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1923  
Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu  
1 5 10 15

<210> 1924  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1924  
Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu Val  
1 5 10 15

<210> 1925  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1925  
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu  
1 5 10 15

<210> 1926  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1926  
Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile  
1 5 10 15

<210> 1927  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1927  
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp  
1 5 10 15

<210> 1928  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1928  
His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys  
1 5 10 15

<210> 1929  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1929  
His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly  
1 5 10 15

<210> 1930  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1930  
Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu  
1 5 10 15

<210> 1931  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1931  
Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp  
1 5 10 15

<210> 1932  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1932  
Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro

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|---|---|----|----|
| 1 | 5 | 10 | 15 |
|---|---|----|----|

<210> 1933  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1933  
Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr  
1 5 10 15

<210> 1934  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1934  
Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln Asp Phe  
1 5 10 15

<210> 1935  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1935  
Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu  
1 5 10 15

<210> 1936  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1936  
Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser  
1 5 10 15

<210> 1937  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide



<400> 1937

Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Gln  
1 5 10 15

<210> 1938

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1938

Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala  
1 5 10 15

<210> 1939

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1939

Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys  
1 5 10 15

<210> 1940

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1940

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
1 5 10 15

<210> 1941

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1941

Leu Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile  
1 5 10 15

<210> 1942

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1942

Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro  
1 5 10 15

<210> 1943

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1943

Met Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10 15

<210> 1944

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1944

Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala  
1 5 10 15

<210> 1945

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1945

Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu  
1 5 10 15

<210> 1946

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1946

Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile  
1 5 10 15

<210> 1947

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1947  
Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His Phe Leu  
1 5 10 15

<210> 1948  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1948  
Gln Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu  
1 5 10 15

<210> 1949  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1949  
Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro  
1 5 10 15

<210> 1950  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1950  
Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser  
1 5 10 15

<210> 1951  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1951  
Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His His Thr  
1 5 10 15

<210> 1952  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1952  
Arg Glu Pro Val Thr Lys Ala Glu Met Leu Glu Ser Val Leu Arg  
1 5 10 15

<210> 1953  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1953  
Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 1954  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1954  
Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp  
1 5 10 15

<210> 1955  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1955  
Ser Ser Thr Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala  
1 5 10 15

<210> 1956  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1956  
Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly

|   |   |    |    |
|---|---|----|----|
| 1 | 5 | 10 | 15 |
|---|---|----|----|

<210> 1957  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1957  
Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu  
1 5 10 15

<210> 1958  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1958  
Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys  
1 5 10 15

<210> 1959  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1959  
Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu  
1 5 10 15

<210> 1960  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1960  
Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly  
1 5 10 15

<210> 1961  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1961

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Glu | Glu | Leu | Ser | Met | Leu | Glu | Val | Phe | Glu | Gly | Arg | Glu | Asp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |

<210> 1962

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1962

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Phe | Leu | Trp | Gly | Pro | Arg | Ala | Leu | Ile | Glu | Thr | Ser | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |

<210> 1963

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1963

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ile | Leu | Val | Thr | Cys | Leu | Gly | Leu | Ser | Tyr | Asp | Gly | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |

<210> 1964

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1964

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Pro | Pro | Leu | His | Glu | Arg | Ala | Leu | Arg | Glu | Gly | Glu | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 1965

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1965

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Gln | Val | Pro | Gly | Ser | Asp | Pro | Ala | Cys | Tyr | Glu | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |

<210> 1966

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1966

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Lys | Val | Leu | His | His | Thr | Leu | Lys | Ile | Gly | Gly | Glu | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1967

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1967

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Glu | Leu | Val | His | Phe | Leu | Leu | Leu | Lys | Tyr | Arg | Ala | Arg | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1968

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1968

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Leu | Leu | Ile | Ile | Val | Leu | Ala | Ile | Ile | Ala | Arg | Glu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1969

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1969

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Gly | Leu | Val | Gly | Ala | Gln | Ala | Pro | Ala | Thr | Glu | Glu | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1970

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1970

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gly | Leu | Ser | Tyr | Asp | Gly | Leu | Leu | Gly | Asp | Asn | Gln | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1971

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1971  
Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly Leu  
1 5 10 15

<210> 1972  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1972  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu  
1 5 10 15

<210> 1973  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1973  
Glu Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val  
1 5 10 15

<210> 1974  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1974  
Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu Gly  
1 5 10 15

<210> 1975  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1975  
Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala  
1 5 10 15



<210> 1976  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1976  
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu  
1 5 10 15

<210> 1977  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1977  
Glu Val Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro  
1 5 10 15

<210> 1978  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1978  
Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu  
1 5 10 15

<210> 1979  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1979  
Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu Val  
1 5 10 15

<210> 1980  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1980  
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu

1 5 10 15

<210> 1981  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1981  
Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp  
1 5 10 15

<210> 1982  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1982  
Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile  
1 5 10 15

<210> 1983  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1983  
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp  
1 5 10 15

<210> 1984  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1984  
Gly Pro His Ile Ser Tyr Pro Pro Leu His Glu Trp Val Leu Arg  
1 5 10 15

<210> 1985  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1985

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Phe | Leu | Leu | Leu | Lys | Tyr | Arg | Ala | Arg | Glu | Pro | Val | Thr | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1986

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1986

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Tyr | Ile | Phe | Ala | Thr | Cys | Leu | Gly | Leu | Ser | Tyr | Asp | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1987

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1987

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Leu | Met | Glu | Val | Asp | Pro | Ile | Gly | His | Leu | Tyr | Ile | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1988

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<400> 1988

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| Ile | Gly | His | Leu | Tyr | Ile | Phe | Ala | Thr | Cys | Leu | Gly | Leu | Ser | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1989

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<400> 1989

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Glu | Met | Leu | Gly | Ser | Val | Val | Gly | Asn | Trp | Gln | Tyr | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 1990

<211> 15

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<400> 1990

Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu  
1 5 10 15

<210> 1991

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<400> 1991

Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 1992

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<400> 1992

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser  
1 5 10 15

<210> 1993

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<400> 1993

Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu  
1 5 10 15

<210> 1994

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<223> Artificial Peptide

<400> 1994

Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala  
1 5 10 15

<210> 1995

<211> 15

<212> PRT  
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<400> 1995  
Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys  
1 5 10 15

<210> 1996  
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<212> PRT  
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<400> 1996  
Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
1 5 10 15

<210> 1997  
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<400> 1997  
Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile  
1 5 10 15

<210> 1998  
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<400> 1998  
Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro  
1 5 10 15

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<223> Artificial Peptide

<400> 1999  
Asn Gln Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu Ala  
1 5 10 15

<210> 2000  
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<400> 2000  
Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser  
1 5 10 15

<210> 2001  
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<223> Artificial Peptide

<400> 2001  
Pro Ser Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu  
1 5 10 15

<210> 2002  
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<212> PRT  
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<223> Artificial Peptide

<400> 2002  
Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu Val Phe  
1 5 10 15

<210> 2003  
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<220>  
<223> Artificial Peptide

<400> 2003  
Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His Phe Leu  
1 5 10 15

<210> 2004  
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<220>  
<223> Artificial Peptide

<400> 2004  
Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro

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<210> 2005  
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<223> Artificial Peptide

<400> 2005  
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly  
1 5 10 15

<210> 2006  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2006  
Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu  
1 5 10 15

<210> 2007  
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<212> PRT  
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<400> 2007  
Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His His Met  
1 5 10 15

<210> 2008  
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<220>  
<223> Artificial Peptide

<400> 2008  
Arg Glu Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly  
1 5 10 15

<210> 2009  
<211> 15  
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<400> 2009

Ser Ser Thr Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala  
1 5 10 15

<210> 2010

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2010

Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10 15

<210> 2011

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2011

Val Asp Pro Ile Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly  
1 5 10 15

<210> 2012

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 2012

Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu  
1 5 10 15

<210> 2013

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 2013

Val Gly Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala  
1 5 10 15

<210> 2014

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2014

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Glu | Glu | Leu | Ser | Val | Leu | Glu | Val | Phe | Glu | Gly | Arg | Glu | Asp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2015

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<220>

<223> Artificial Peptide

<400> 2015

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Phe | Leu | Trp | Gly | Pro | Arg | Ala | Leu | Val | Glu | Thr | Ser | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2016

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2016

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Pro | Pro | Leu | His | Glu | Trp | Val | Leu | Arg | Glu | Gly | Glu | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 2017

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2017

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Arg | Gln | Val | Pro | Gly | Ser | Asp | Pro | Ala | Cys | Tyr | Glu | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2018

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<220>

<223> Artificial Peptide

<400> 2018

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Val | Lys | Val | Leu | His | His | Met | Val | Lys | Ile | Ser | Gly | Gly | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2019

<211> 15

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<220>  
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<400> 2019  
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val  
1 5 10 15

<210> 2020  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2020  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Met Leu Glu Val Phe Glu  
1 5 10 15

<210> 2021  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2021  
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys  
1 5 10 15

<210> 2022  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2022  
Gly Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala  
1 5 10 15

<210> 2023  
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<220>  
<223> Artificial Peptide

<400> 2023  
Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp  
1 5 10 15

<210> 2024  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2024  
Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys  
1 5 10 15

<210> 2025  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2025  
Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
1 5 10 15

<210> 2026  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2026  
Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser  
1 5 10 15

<210> 2027  
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<220>  
<223> Artificial Peptide

<400> 2027  
Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 2028  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2028  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val Met Pro Lys Thr Gly

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|---|---|----|----|
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<210> 2029  
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<220>  
<223> Artificial Peptide

<400> 2029  
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile  
1 5 10 15

<210> 2030  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2030  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu  
1 5 10 15

<210> 2031  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2031  
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys  
1 5 10 15

<210> 2032  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2032  
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe  
1 5 10 15

<210> 2033  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2033

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Ile | Ile | Ala | Arg | Glu | Gly | Asp | Cys | Ala | Pro | Glu | Glu | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2034

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 2034

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Val | Phe | Gly | Ile | Glu | Leu | Met | Glu | Val | Asp | Pro | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2035

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2035

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | His | Phe | Val | Gln | Glu | Asn | Tyr | Leu | Glu | Tyr | Arg | Gln | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2036

<211> 15

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<223> Artificial Peptide

<400> 2036

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Asp | Gly | Leu | Leu | Gly | Asp | Asn | Gln | Ile | Met | Pro | Lys | Ala | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2037

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<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2037

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Gln | Ala | Ala | Ile | Ser | Arg | Lys | Met | Val | Glu | Leu | Val | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2038

<211> 12

<212> PRT

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<223> Artificial Peptide

<400> 2038

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro  
1 5 10

<210> 2039

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2039

Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu  
1 5 10 15

<210> 2040

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2040

Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His  
1 5 10 15

<210> 2041

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2041

Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His  
1 5 10 15

<210> 2042

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 2042

Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His  
1 5 10 15

<210> 2043

<211> 12

<212> PRT  
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<220>  
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<400> 2043  
Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro  
1 5 10

<210> 2044  
<211> 9  
<212> PRT  
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<223> Artificial Peptide

<400> 2044  
Leu Val Gly Ala Gln Ala Pro Ala Thr  
1 5

<210> 2045  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2045  
Leu Ser Tyr Asp Gly Leu Leu Gly Asp  
1 5

<210> 2046  
<211> 9  
<212> PRT  
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<400> 2046  
Leu Gly Asp Asn Gln Val Met Pro Lys  
1 5

<210> 2047  
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<400> 2047  
Ile Trp Glu Glu Leu Ser Met Leu Glu  
1 5

<210> 2048  
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<400> 2048  
Trp Gly Pro Arg Ala Leu Ile Glu Thr  
1 5

<210> 2049  
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<400> 2049  
Trp Glu Glu Leu Ser Met Leu Glu Val  
1 5

<210> 2050  
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<400> 2050  
Leu Glu Tyr Arg Gln Val Pro Gly Ser  
1 5

<210> 2051  
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<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2051  
Ile Ser Tyr Pro Pro Leu His Glu Arg  
1 5

<210> 2052  
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<212> PRT  
<213> Artificial Sequence

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<400> 2052  
Phe Gln Ala Ala Ile Ser Arg Lys Met



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5

<210> 2053

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<220>

<223> Artificial Peptide

<400> 2053

Leu Gly Glu Val Pro Ala Ala Asp Ser

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<210> 2054

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 2054

Val Ile Phe Ser Lys Ala Ser Glu Tyr

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<210> 2055

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2055

Ile Phe Ser Lys Ala Ser Glu Tyr Leu

1

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<210> 2056

<211> 9

<212> PRT

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<223> Artificial Peptide

<400> 2056

Leu Gly Leu Val Gly Ala Gln Ala Pro

1

5

<210> 2057

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<212> PRT

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<400> 2057  
Val Val Glu Val Val Pro Ile Ser His  
1 5

<210> 2058  
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<223> Artificial Peptide

<400> 2058  
Ile Ile Val Leu Ala Ile Ile Ala Ile  
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<210> 2059  
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<400> 2059  
Leu Leu Lys Tyr Arg Ala Arg Glu Pro  
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<223> Artificial Peptide

<400> 2060  
Ile Leu Val Thr Cys Leu Gly Leu Ser  
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<210> 2061  
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<220>  
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<400> 2061  
Val Glu Val Val Pro Ile Ser His Leu  
1 5

<210> 2062  
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<220>

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<400> 2062

Ile Glu Gly Asp Cys Ala Pro Glu Glu  
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<210> 2063

<211> 9

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<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2063

Leu Ala Ile Ile Ala Ile Glu Gly Asp  
1 5

<210> 2064

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2064

Leu Tyr Ile Leu Val Thr Cys Leu Gly  
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<210> 2065

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2065

Met Leu Glu Ser Val Leu Arg Asn Cys  
1 5

<210> 2066

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2066

Leu Leu Ile Ile Val Leu Ala Ile Ile  
1 5

<210> 2067

<211> 9

<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2067  
Val Pro Ala Ala Asp Ser Pro Ser Pro  
1 5

<210> 2068  
<211> 9  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2068  
Val Gly Ala Gln Ala Pro Ala Thr Glu  
1 5

<210> 2069  
<211> 9  
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<400> 2069  
Val Leu Ala Ile Ile Ala Ile Glu Gly  
1 5

<210> 2070  
<211> 9  
<212> PRT  
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<220>  
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<400> 2070  
Ile Val Leu Ala Ile Ile Ala Ile Glu  
1 5

<210> 2071  
<211> 9  
<212> PRT  
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<400> 2071  
Tyr Arg Ala Arg Glu Pro Val Thr Lys  
1 5

<210> 2072  
<211> 9  
<212> PRT  
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<400> 2072  
Val Phe Gly Ile Glu Val Val Glu Val  
1 5

<210> 2073  
<211> 9  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2073  
Val Thr Leu Gly Glu Val Pro Ala Ala  
1 5

<210> 2074  
<211> 9  
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<220>  
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Ala Ala Leu Ser Arg Lys Val Ala Glu

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Met Pro Leu Glu Gln Arg Ser Gln His

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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

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1 5

<210> 2189  
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<400> 2189  
Ala Pro Arg Thr Leu Val Tyr Leu Leu  
1 5

<210> 2190  
<211> 9  
<212> PRT  
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<220>  
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<400> 2190  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
1 5

<210> 2191  
<211> 9  
<212> PRT  
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<220>  
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<400> 2191  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
1 5

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<400> 2192  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
1 5

<210> 2193  
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<400> 2193  
Phe Pro Phe Lys Tyr Ala Ala Ala Phe  
1 5

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<400> 2194  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
1 5 10

<210> 2195  
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<400> 2195  
Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg  
1 5 10

<210> 2196  
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<220>  
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<400> 2196  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr

1 5 10

<210> 2197  
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<220>  
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<400> 2197  
Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr  
1 5 10

<210> 2198  
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<212> PRT  
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<220>  
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<400> 2198  
Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr  
1 5 10

<210> 2199  
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<220>  
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<400> 2199  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2200  
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<400> 2200  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2201  
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<400> 2201  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2202  
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<400> 2202  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2203  
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<400> 2203  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2204  
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<220>  
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<400> 2204  
Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser  
1 5 10 15

<210> 2205  
<211> 14  
<212> PRT  
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<220>  
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<400> 2205  
Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu  
1 5 10

<210> 2206  
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<220>

<223> Artificial Peptide

<400> 2206

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Thr | Gln | Asp | Glu | Asn | Pro | Val | Val | His | Phe | Phe | Lys | Asn | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Thr | Pro | Arg | Thr | Pro | Pro | Pro |     |     |     |     |     |     |     |     |
|     |     |     |     | 20  |     |     |     |     |     |     |     |     |     |     |     |

<210> 2207

<211> 13

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2207

|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Gln | Ile | Gly | Asn | Asp | Pro | Asn | Arg | Asp | Ile | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |

<210> 2208

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<220>

<223> Artificial Peptide

<400> 2208

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Arg | Phe | Gln | Ser | Gln | Thr | Thr | Leu | Lys | Gln | Lys | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 2209

<211> 14

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2209

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Ile | Lys | Ala | Asn | Ser | Lys | Phe | Ile | Gly | Ile | Thr | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 2210

<211> 14

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2210

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Ile | Lys | Ala | Asn | Ser | Lys | Phe | Ile | Gly | Ile | Thr | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 2211  
<211> 21  
<212> PRT  
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<223> Artificial Peptide

<400> 2211  
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
1 5 10 15  
Asn Val Val Asn Ser  
20

<210> 2212  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2212  
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala  
1 5 10 15

<210> 2213  
<211> 13  
<212> PRT  
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<220>  
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<221> VARIANT  
<222> 1, 13  
<223> Xaa = D-Alanine or L-Alanine

<221> VARIANT  
<222> 3  
<223> Xaa = cyclohexylalanine, phenylalanine, or  
tyrosine

<400> 2213  
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa  
1 5 10

<210> 2214  
<211> 9  
<212> PRT  
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<220>  
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<400> 2214  
Lys Val Ala Glu Leu Val His Phe Leu  
1 5

<210> 2215  
<211> 9  
<212> PRT  
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<220>  
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<400> 2215  
Lys Leu Ala Glu Leu Val His Phe Leu  
1 5

<210> 2216  
<211> 9  
<212> PRT  
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<220>  
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<400> 2216  
Lys Met Ala Glu Leu Val His Phe Leu  
1 5

<210> 2217  
<211> 9  
<212> PRT  
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<220>  
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<400> 2217  
Lys Leu Ala Glu Leu Val His Phe Val  
1 5

<210> 2218  
<211> 9  
<212> PRT  
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<220>  
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<400> 2218  
Lys Met Ala Glu Leu Val His Phe Val  
1 5

<210> 2219  
<211> 9  
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<220>  
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<400> 2219  
Lys Ile Trp Glu Glu Leu Ser Val Leu

1 5

<210> 2220  
<211> 9  
<212> PRT  
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<220>  
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<400> 2220  
Lys Leu Trp Glu Glu Leu Ser Val Val  
1 5

<210> 2221  
<211> 8  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2221  
Ala Thr Cys Leu Gly Leu Ser Tyr  
1 5

<210> 2222  
<211> 11  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2222  
Val Val Glu Val Val Pro Ile Ser His Leu Tyr  
1 5 10

<210> 2223  
<211> 11  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2223  
Thr Met Asn Tyr Pro Leu Trp Ser Gln Ser Tyr  
1 5 10

<210> 2224  
<211> 11  
<212> PRT  
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<220>  
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<400> 2224  
Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr  
1 5 10

<210> 2225  
<211> 8  
<212> PRT  
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<220>  
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<400> 2225  
Val Thr Asp Leu Gly Leu Ser Tyr  
1 5

<210> 2226  
<211> 9  
<212> PRT  
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<220>  
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<400> 2226  
Ser Thr Phe Ser Thr Thr Ile Asn Tyr  
1 5

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<211> 9  
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<220>  
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<400> 2227  
Met Thr Asp Leu Val Gln Glu Asn Tyr  
1 5

<210> 2228  
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<400> 2228  
Ser Thr Leu Pro Thr Thr Met Asn Tyr  
1 5

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<400> 2229

Gly Thr Val Val Gly Asn Trp Gln Tyr  
1 5

<210> 2230

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<400> 2230

Glu Thr Asp Pro Ile Gly His Leu Tyr  
1 5

<210> 2231

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<212> PRT

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<220>

<223> Artificial Peptide

<400> 2231

Ile Thr Gly Gly Pro His Ile Ser Tyr  
1 5

<210> 2232

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<212> PRT

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<220>

<223> Artificial Peptide

<400> 2232

Ala Thr Ser Phe Ser Thr Thr Ile Asn Tyr  
1 5 10

<210> 2233

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2233

Ala Ser Asp Phe Ser Thr Thr Ile Asn Tyr  
1 5 10

<210> 2234

<211> 10

<212> PRT  
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<220>  
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<400> 2234  
Leu Thr Gln Asp Leu Val Gln Glu Asn Tyr  
1 5 10

<210> 2235  
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<400> 2235  
Ala Thr Ser Leu Pro Thr Thr Met Asn Tyr  
1 5 10

<210> 2236  
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<220>  
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<400> 2236  
Ala Ser Asp Leu Pro Thr Thr Met Asn Tyr  
1 5 10

<210> 2237  
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<400> 2237  
Leu Thr Asp His Phe Val Gln Glu Asn Tyr  
1 5 10

<210> 2238  
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<400> 2238  
Ser Val Phe Ser Thr Thr Ile Asn Lys  
1 5

<210> 2239  
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<400> 2239  
Ser Val Phe Ser Thr Thr Ile Asn Arg  
1 5

<210> 2240  
<211> 9  
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<220>  
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<400> 2240  
Thr Val Ile Asn Tyr Thr Leu Trp Arg  
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<210> 2241  
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<220>  
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<400> 2241  
Thr Val Ile Asn Tyr Thr Leu Trp Lys  
1 5

<210> 2242  
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<400> 2242  
Leu Val His Phe Leu Leu Lys Arg  
1 5

<210> 2243  
<211> 9  
<212> PRT  
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<220>  
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<400> 2243  
Tyr Val Phe Pro Val Ile Phe Ser Lys



1

5

<210> 2244

<211> 9

<212> PRT

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<220>

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<400> 2244

Tyr Val Phe Pro Val Ile Phe Ser Arg

1

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<210> 2245

<211> 8

<212> PRT

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<223> Artificial Peptide

<400> 2245

Ser Val Phe Ala His Pro Arg Arg

1

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<210> 2246

<211> 9

<212> PRT

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<223> Artificial Peptide

<400> 2246

Ala Val Ile Glu Thr Ser Tyr Val Lys

1

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<210> 2247

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 2247

Ala Val Ile Glu Thr Ser Tyr Val Arg

1

5

<210> 2248

<211> 9

<212> PRT

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<220>

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<400> 2248  
Ile Val Tyr Pro Pro Leu His Glu Arg  
1 5

<210> 2249  
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<400> 2249  
Ile Val Tyr Pro Pro Leu His Glu Lys  
1 5

<210> 2250  
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<400> 2250  
Leu Trp Gly Pro Arg Ala Leu Ile  
1 5

<210> 2251  
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<220>  
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<400> 2251  
Gln Tyr Phe Phe Pro Val Ile Phe  
1 5

<210> 2252  
<211> 8  
<212> PRT  
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<220>  
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<400> 2252  
Ser Tyr Pro Pro Leu His Glu Trp  
1 5

<210> 2253  
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<400> 2253

Ser Tyr Pro Pro Leu His Glu Trp Val Leu  
1 5 10

<210> 2254

<211> 11

<212> PRT

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<220>

<223> Artificial Peptide

<400> 2254

Ser Phe Ser Thr Thr Ile Asn Tyr Thr Leu Trp  
1 5 10

<210> 2255

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2255

Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu  
1 5 10

<210> 2256

<211> 11

<212> PRT

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<220>

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<400> 2256

Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu  
1 5 10

<210> 2257

<211> 11

<212> PRT

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<220>

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<400> 2257

Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe  
1 5 10

<210> 2258

<211> 9

<212> PRT  
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<220>  
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<400> 2258  
Met Tyr Pro Asp Leu Glu Ser Glu Phe  
1 5

<210> 2259  
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<220>  
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<400> 2259  
Lys Tyr Val Glu Leu Val His Phe Phe  
1 5

<210> 2260  
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<400> 2260  
Ile Tyr Ser Lys Ala Ser Glu Tyr Phe  
1 5

<210> 2261  
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<400> 2261  
Glu Tyr Leu Gln Leu Val Phe Gly Phe  
1 5

<210> 2262  
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<220>  
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<400> 2262  
Val Tyr Pro Lys Thr Gly Leu Leu Phe  
1 5

<210> 2263  
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<400> 2263  
Thr Tyr Pro Asp Leu Glu Ser Glu Phe  
1 5

<210> 2264  
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<400> 2264  
Asn Tyr Gln Tyr Phe Phe Pro Val Phe  
1 5

<210> 2265  
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<400> 2265  
Ile Tyr Ser Lys Ala Ser Ser Ser Phe  
1 5

<210> 2266  
<211> 9  
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<400> 2266  
Ile Tyr Pro Lys Ala Gly Leu Leu Phe  
1 5

<210> 2267  
<211> 10  
<212> PRT  
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<220>  
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<400> 2267  
Ser Tyr Ser Thr Thr Ile Asn Tyr Thr Phe

1 5 10

<210> 2268  
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<220>  
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<400> 2268  
Leu Tyr Ile Leu Val Thr Cys Leu Gly Phe  
1 5 10

<210> 2269  
<211> 10  
<212> PRT  
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<220>  
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<400> 2269  
Val Tyr Pro Lys Thr Gly Leu Leu Ile Phe  
1 5 10

<210> 2270  
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<212> PRT  
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<220>  
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<400> 2270  
Glu Tyr Leu Trp Gly Pro Arg Ala Leu Phe  
1 5 10

<210> 2271  
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<400> 2271  
Ser Tyr Val Lys Val Leu His His Thr Phe  
1 5 10

<210> 2272  
<211> 10  
<212> PRT  
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<400> 2272  
Asn Tyr Gln Tyr Phe Phe Pro Val Ile Phe  
1 5 10

<210> 2273  
<211> 10  
<212> PRT  
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<400> 2273  
Leu Tyr Ile Phe Ala Thr Cys Leu Gly Phe  
1 5 10

<210> 2274  
<211> 10  
<212> PRT  
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<220>  
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<400> 2274  
Ile Tyr Pro Lys Ala Gly Leu Leu Ile Phe  
1 5 10

<210> 2275  
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<400> 2275  
Ser Tyr Pro Pro Leu His Glu Trp Val Phe  
1 5 10

<210> 2276  
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<400> 2276  
Lys Met Val Glu Leu Val His Phe Leu  
1 5

<210> 2277  
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<220>

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<400> 2277

Lys Met Val Glu Leu Val His Phe Leu Leu  
1 5 10

<210> 2278

<211> 11

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<400> 2278

Lys Met Val Glu Leu Val His Phe Leu Leu Leu  
1 5 10

<210> 2279

<211> 9

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<400> 2279

Lys Ala Ser Glu Tyr Leu Gln Leu Val  
1 5

<210> 2280

<211> 10

<212> PRT

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<400> 2280

Tyr Leu Gln Leu Val Phe Gly Ile Glu Val  
1 5 10

<210> 2281

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<220>

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<400> 2281

Leu Val Phe Gly Ile Glu Val Val Glu Val  
1 5 10

<210> 2282

<211> 9



<212> PRT  
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<400> 2282  
Lys Val Ala Glu Leu Val His Phe Leu  
1 5

<210> 2283  
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<400> 2283  
Lys Val Ala Glu Leu Val His Phe Leu Leu  
1 5 10

<210> 2284  
<211> 11  
<212> PRT  
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<220>  
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<400> 2284  
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val  
1 5 10

<210> 2285  
<211> 10  
<212> PRT  
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<400> 2285  
Leu Val Phe Gly Ile Glu Leu Met Glu Val  
1 5 10

<210> 2286  
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<212> PRT  
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<220>  
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<400> 2286  
Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val  
1 5 10

<210> 2287  
<211> 9  
<212> PRT  
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<220>  
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<400> 2287  
Lys Ile Trp Glu Glu Leu Ser Val Leu  
1 5

<210> 2288  
<211> 9  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2288  
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<400> 2381  
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<400> 2382  
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<210> 2383  
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<400> 2383  
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<210> 2384  
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<210> 2385  
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<400> 2385  
Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly  
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<400> 2386  
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp

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<400> 2390  
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<400> 2394  
Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile  
1 5 10 15

<210> 2395  
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<212> PRT  
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<223> Artificial Peptide

<400> 2395  
Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp  
1 5 10 15

<210> 2396  
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<212> PRT  
<213> Artificial Sequence



<220>

<223> Artificial Peptide

<400> 2396

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Gly | Leu | Leu | Gly | Asp | Asn | Gln | Ile | Met | Pro | Lys | Ala | Gly | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2397

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2397

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gln | Ile | Met | Pro | Lys | Ala | Gly | Leu | Leu | Ile | Ile | Val | Leu | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2398

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2398

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Gly | Leu | Leu | Ile | Ile | Val | Leu | Ala | Ile | Ile | Ala | Arg | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2399

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2399

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Leu | Leu | Ile | Ile | Val | Leu | Ala | Ile | Ile | Ala | Arg | Glu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2400

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2400

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ile | Ile | Val | Leu | Ala | Ile | Ile | Ala | Arg | Glu | Gly | Asp | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2401

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2401  
Gly Pro His Ile Ser Tyr Pro Pro Leu His Glu Trp Val Leu Arg  
1 5 10 15

<210> 2402  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2402  
Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu  
1 5 10 15

<210> 2403  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2403  
Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile  
1 5 10 15

<210> 2404  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2404  
Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu  
1 5 10 15

<210> 2405  
<211> 15  
<212> PRT  
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<220>  
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<400> 2405  
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu  
1 5 10 15

<210> 2406  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2406  
Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser  
1 5 10 15

<210> 2407  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2407  
Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu Val Phe  
1 5 10 15

<210> 2408  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2408  
Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile  
1 5 10 15

<210> 2409  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2409  
Gly Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala  
1 5 10 15

<210> 2410  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2410  
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys

| 1 | 5 | 10 | 15 |
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<210> 2411  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2411  
Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His  
1 5 10 15

<210> 2412  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2412  
Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser  
1 5 10 15

<210> 2413  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2413  
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val  
1 5 10 15

<210> 2414  
<211> 15  
<212> PRT  
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<220>  
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<400> 2414  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Val Met Pro Lys Thr Gly  
1 5 10 15

<210> 2415  
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<212> PRT  
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<220>  
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<400> 2415

Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys  
1 5 10 15

<210> 2416

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 2416

Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp  
1 5 10 15

<210> 2417

<211> 15

<212> PRT

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<220>

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<400> 2417

Glu Glu Lys Ile Trp Glu Glu Leu Ser Met Leu Glu Val Phe Glu  
1 5 10 15

<210> 2418

<211> 15

<212> PRT

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<400> 2418

Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu  
1 5 10 15

<210> 2419

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 2419

Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
1 5 10 15

<210> 2420

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2420

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Val | Leu | His | His | Thr | Leu | Lys | Ile | Gly | Gly | Glu | Pro | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2421

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2421

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Lys | Ile | Gly | Gly | Glu | Pro | His | Ile | Ser | Tyr | Pro | Pro | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 2422

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2422

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Asp | Leu | Glu | Ser | Glu | Phe | Gln | Ala | Ala | Leu | Ser | Arg | Lys |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |

<210> 2423

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2423

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Gln | Ala | Ala | Leu | Ser | Arg | Lys | Val | Ala | Glu | Leu | Val | His |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |

<210> 2424

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2424

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Val | Phe | Gly | Ile | Glu | Leu | Met | Glu | Val | Asp | Pro | Ile | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |

<210> 2425

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 2425  
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe  
1 5 10 15

<210> 2426  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 2426  
Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile  
1 5 10 15

<210> 2427  
<211> 15  
<212> PRT  
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<400> 2427  
Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly  
1 5 10 15

<210> 2428  
<211> 15  
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<400> 2428  
Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys  
1 5 10 15

<210> 2429  
<211> 15  
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<400> 2429  
Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu  
1 5 10 15

<210> 2430  
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<400> 2430  
Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His  
1 5 10 15

<210> 2431  
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<400> 2431  
Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val  
1 5 10 15

<210> 2432  
<211> 15  
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<400> 2432  
Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu  
1 5 10 15

<210> 2433  
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<400> 2433  
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu  
1 5 10 15

<210> 2434  
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<220>  
<223> Artificial Peptide

<400> 2434  
Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser



|   |   |    |    |
|---|---|----|----|
| 1 | 5 | 10 | 15 |
|---|---|----|----|

<210> 2435  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 2435  
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe  
1 5 10 15

<210> 2436  
<211> 15  
<212> PRT  
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<220>  
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<400> 2436  
Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His  
1 5 10 15

<210> 2437  
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<220>  
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<223> May be any amino acid

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<222> (6)..(6)  
<223> May be Ile, Val, Met, Ser, Ala, Cys, Thr, Pro or Leu

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<223> May be any amino acid

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<222> (9)..(9)  
<223> May be either Ile or Val

<400> 2437  
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa  
1 5

<210> 2438  
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<223> May be any amino acid

<220>  
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<222> (7)..(7)  
<223> May be Gly, Arg or Asp

<400> 2438  
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly  
1 5